

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/050106

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H05K 1/02, H04B 10/00, G02B 6/43

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H05K, H04B, G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 15, 6 April 2001 (2001-04-01) & JP 2000 352634 A (NEC CORP) 19 December 2000 (2000-12-19) abstract and figures	1-2,6-7,12
A	---	3-5,8-11,13
X	PATENT ABSTRACTS OF JAPAN vol. 2003, no 08, 6 August 2003 (2003-08-06) & JP 2003 098399 A (KONICA CORP), 3 April 2003 (2003-04-03) abstract and figures	1,6,12
A	--	2-5,7-11,13

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

3 November 2004

Date of mailing of the international search report

04-11-2004

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 22, 9 March 2001 (2001-03-09) & JP 2001 141965 A (CANON INC), 25 May 2001 A (CANON INC) abstract --	1-13
X	US 3628039 A (EUGENE V. OCHS ET AL), 14 December 1971 (14.12.1971), column 1, line 45 - line 51; column 1, line 66 - column 2, line 49	1-2,6-7,12
A	--	3-5,8-11,13
X	US 6396968 B2 (ULF PILLKAHN), 28 May 2002 (28.05.2002), column 1, line 33 - column 3, line 40	1,6
A	-- -----	2-5,7-13

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01/10/2004

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US	3628039	A	14/12/1971	NONE
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US	6396968	B2	28/05/2002	DE	10106623 A,C	13/09/2001
				US	20010036331 A	01/11/2001